UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I

J. F. KENNEDY FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02203

SEMS DocID 641389

RCRA RECORDS CENTER
FACILITY Agency Realty
I.D. NO. RID001204226
FILE LOC. R5
OTHER

January 7, 1983

Larry Bierlein, Esq.
1054 31st St. N.W.
Washington, D.C. 20007

Dear Attorney Bierlein:

Per our recent discussions, I am enclosing copies of data relative to the Carroll Products site. I understand that you will call me as soon as you have had an opportunity to review this material.

I look forward to a meeting in the very near future to discuss Carroll Products' role in the resolution of this contamination problem.

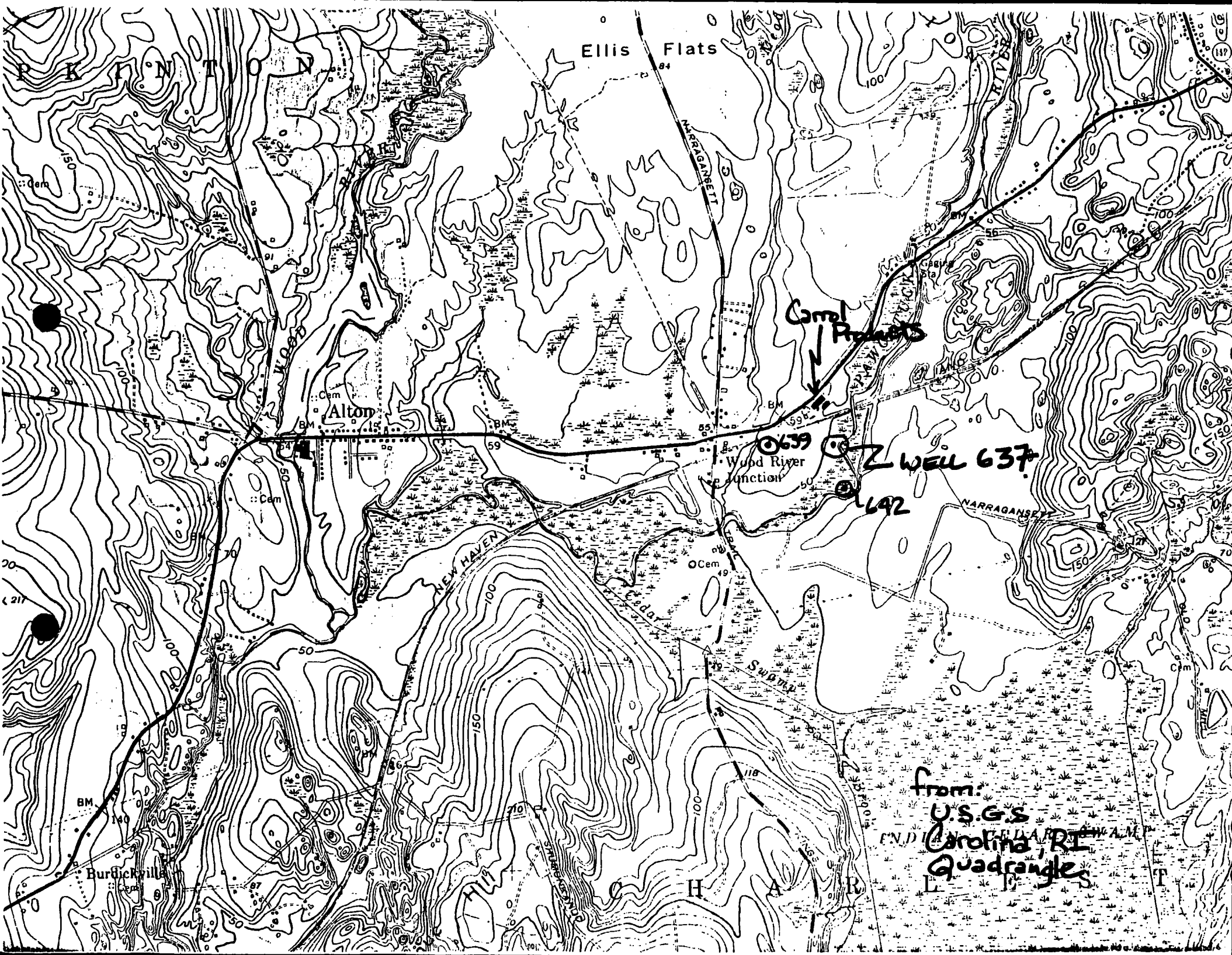
Sincerely,

Lauren Stiller Rikleen

Lauren Stiller Rikleen
Attorney
Office of Regional Counsel

Enclosure

cc: Dr. R. Chadha
Route 91
Wood River Junction, RI 02894


Ellis Flats
NARRAGANSETT
Alton
Wood River Junction
Comel Products
WELL 637
639
642
NEW HAVEN
Cedar Swamp
Burdickville
from:
U.S.G.S
Carolina, RI
Quadrangles

Carrol Products

Table 1

Sample	Location	Compound		Concentration
74127	Well 639	None detected		
		Conductivity		81 μ ohms/cm
74128	Well 637	Trichloroethylene		5.7 PPB
		Tetrachloroethylene		8.4 PPB
		Cyclohexene	Present	1-2 PPB *
		2,3,4 Trimethyl-2-Pentene	Present	
74130	Well 642	1,1 Dichloroethylene		5.9 PPB
		1,1,1 Trichloroethane		203 PPB
		Tetrachloroethylene		119 PPB
		Conductivity		4900 μ omhs/cm
74131 **	Carrol Products' Water Tower Well	Methylene Chloride		58 PPB
		Toluene		14 PPB
		Cyclohexene	Present	15-30 PPB *

Detection Limits - 1.0 PPB

** Sample 74131 concentrations are less than actual groundwater levels due to a highly aerated sample from well pump.

* Only rough estimate for concentration, no standard ion available to quantitate.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: February 17, 1982

SUBJECT: Carrol Products, RI

FROM: Daniel S. Granz D.S.G.
Environmental Engineer

TO: Michele Travers
Enforcement

Listed below are the metal analyses results from the October 20, 1981 sampling survey.

Sample	Location	Parameter	Concentration (ppb)
74128	Well 63/7	Mercury	0.2K
		Arsenic	2K
		Selenium	2K
		Copper	2
		Nickel	20K
		Cobalt	5
		Cadmium	2
		Zinc	20
		Lead	20
		Beryllium	2K
		Barium	100K
		Chromium	20K
74131	Carrol Products Well	Mercury	0.2K
		Arsenic	2K
		Selenium	2K
		Copper	8
		Nickel	20K
		Cobalt	2
		Cadmium	2
		Zinc	38
		Lead	20
		Beryllium	2K
		Barium	100K
		Chromium	20K

K -less than

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

February 19, 1982

Groundwater Sampling at
Carrol Products

Daniel Granz
Environmental Engineer

Michele Travers
Enforcement

Attached you will find the extractable organic analyses from the October 20, 1981 swrvey. Only samples #74128, #74130, and #74131 were analyzed. These were wells 637, 642, and Carrol Products, respectively. After talking to the analyst, it is our best judgment that only sample #74131 contained significant contaminants. ← 637

Sample	Location	Compound	Concentration
74131	Carrol Products Well	Chlorocyclohexane	Present
		4-methyl benzene sulfonamide	Present

The C-9 alcohol is a common, naturally occurring compound. Also, the adipates and phthalates are commonly found to be laboratory contaminants.

Att.

CONCURRENCES								
SYMBOL	WS	WS						
SURNAME								
DATE	2/19/82	2/5/82						

EPA Form 1320-1 (12-70) OFFICIAL FILE COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Received 2/19/82

Date: 1-26-82

Subject: Analysis of extractables from Carrol Products # 74128,74130;74131 and Resolve # 74870

From: Richard Siscanaw, Chemist RS

To: John Conlon, Chief of OH&M
Thru: Edward Taylor, Chief of Chemistry Section

Analytical Procedure:
Federal Register Vol.44#233, Method 625, Dec. 3, 1979

Method of Quantitation:

Internal Standard

Date Samples Received by Laboratory: 10/81

Date Samples Analyzed: 1/82

Additional Comments:
Quality control consisted of a blank and a 100ppb spike in sample # 74131

Spiked component	% Recovery
phenol	81
2,4,6-trichlorophenol	165
4-nitrophenol	75
2,6-dinitrotoluene	174
hexachloroethane	92
di-n-butyl phthalate	91
chrysene	122

EPA FORM 1320-6 (REV. 3-76)

DATA REPORT SHEET
Base-Neutral Extractables

Date 1-26-82
Instrument HP GC/MS 5985
Analyst R. Skeanaw

Sample Number	74128	74130	74131	74870		
Compound	Ion for Quant.	Conc. ug/l	Conc. ug/l	Conc. ug/l	Conc. ug/l	Conc. ug/l
Acenaphthene						
Acenaphthylene						
Anthracene						
Benzo(a)anthracene						
Benzo(b)fluoranthene						
Benzo(k)fluoranthene						
Benzo(a)pyrene						
Benzo(g,h,i)perylene						
Benzidine						
Bis(2-chloroethyl)ether						
Bis(2-chloroethoxy)methane						
Bis(chloromethyl)ether						
Bis(2-ethylhexyl)phthalate			*	*		
Bis(2-chloroisopropyl)ether						
4-Bromophenyl phenyl ether						
Butyl benzyl phthalate						
2-Chloronaphthalene						
4-Chlorophenyl phenyl ether						
Chrysene						
Dibenzo(a,h)anthracene						
Di-n-butylphthalate						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
1,2-Dichlorobenzene						
3,3'-Dichlorobenzidine						
Diethylphthalate						
Dimethylphthalate						
2,4-Dinitrotoluene						
2,6-Dinitrotoluene						
Dioctylphthalate						
1,2-Diphenylhydrazine						
Fluoranthane						
Fluorene						
Hexachlorobenzene						
Hexachlorobutadiene						

* Not quantitated because of possible laboratory contamination

Detection Limit 5 ppb

DATA REPORT SHEET
Base-Neutral Extractables

2

Date 1-26-82
Instrument HP 5985 GC/MS
Analyst R. Siscanaw

Sample Number	74128	74130	74131	74870	.	. ..
Compound	Ion for Quant.	Conc. ug/l	Conc. ug/l	Conc. ug/l	Conc. ug/l	Conc. ug/l
Hexachloroethane						
Hexachlorocyclopentadiene						
Indeno(1,2,3-cd)pyrene						
Isophorone						
Naphthalene						
Nitrobenzene						
N-Nitrosodimethylamine						
N-Nitrosodi-n-propylamine						
N-Nitrosodiphenylamine						
Phenanthrene						
Pyrene						
2,3,7,8-Tetrachlorodibenzo-p-dioxin						
1,2,4-Trichlorobenzene						
	TENTATIVELY IDENTIFIED					
	C_8-Alcohol	C_8-Alcohol	C_8-Alcohol	C_8-Alcohol		
		di-octyl adipate	chloro cyclohexane	di-octyl adipate		
			bis(2-ethyl hexyl) phthalate	bis(2-ethyl hexyl) phthalate		

Detection limit = 5 ppb

* , not quantitated because of possible lab. contamination

DATA REPORT SHEET
Acid Extractables

Date 1-26-82
Instrument HP 5985 GC/MS
Analyst R. Sisemaw

Sample Number	74128	74130	74131	74870		
Compound	Ion for Quant.	Conc. ug/l	Conc. ug/l	Conc. ug/l	Conc. ug/l	Conc. ug/l
4-Chloro-3-methylphenol						
2-Chlorophenol						
2,4-Dichlorophenol						
2,4-Dimethylphenol						
2,4-Dinitrophenol						
2-Methyl-4,6-dinitrophenol						
2-Nitrophenol						
4-Nitrophenol						
Pentachlorophenol						
Phenol						
2,4,6-Trichlorophenol						
	TENTATIVELY IDENTIFIED					
	C_9-Alcohol		C_9-Alcohol	C_9-Alcohol		
	bis-2-ethyl hexyl phthalate		bis-2-ethyl hexyl phthalate	bis-2-ethyl hexyl phthalate		
			4-methyl benzene sulfonamide			

Detection Level - 2 ppb

DATA REPORT SHEET
Pesticide Extractables

Date 1-26-82
Instrument HP 5985 GC/MS
Analyst R. Siscanaw

Sample Number	74128	74130	74131	74870		
Compound	Ion for Quant.	Conc. ug/l	Conc. ug/l	Conc. ug/l	Conc. ug/l	Conc. ug/l
Aldrin						
a-BHC						
b-BHC						
d-BHC						
g-BHC						
Chlordane						
4,4'-DDD						
4,4'DDE						
4,4'DDT						
Dieldrin						
Endosulfan I						
Endosulfan II						
Endosulfan Sulfate						
Endrin						
Endrin Aldehyde						
Heptachlor						
Heptachlor Epoxide						
Toxaphene						
PCB-1016						
PCB-1221						
PCB-1232						
PCB-1242						
PCB-1248						
PCB-1254						
PCB-1260						

Detection Level - 10 ppb

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Lawrie R.

DATE: July 17, 1981

SUBJECT: RCRA Sampling Inspection
at Carrol Products

FROM: Daniel S. Granz
Environmental Engineer

TO: Michele Travers
Enforcement

On May 7, 1981, Michele Travers (Enforcement), Richard Enander (State), Lori Rikleen (Legal Review), Grace Crooker (S & A), and I conducted a RCRA Inspection at Carrol Products in Wood River Junction, Connecticut.

There were five samples taken. Donna Olsen from Carrol Products was present during sampling and split samples were given to her. Sample #50638 was dry soil from the dry lagoon. Sample #50639 was sediment from the entrance of the active lagoon and sample #50640 was liquid from the same location. Sample #50641 was a liquid from an open pit which contained a dark purple liquid. Sample #50642 was a wet soil sample from the disposal area behind the "Tin Shed" (mixing house), which contained the drainage from inside this building.

EPA's Regional Chain-of-Custody procedures were followed for the collection and storage of the samples. The analyses were done by EPA's Lexington, Laboratory.

Results:

Only volatile organics were analysed from the soil and sediment samples. Volatile organics and metals were analysed from the liquid samples #50641. Table I summarizes the data.

Benzene was found in high concentration in the sediment of the active lagoon. The soil in the spill drainage disposal area behind the "Tin Shed" contained high concentrations of Chloroform, Toluene, Xylenes, and significant contamination problem was identified on this site. Further sampling would be required to obtain the extent of contamination on site and if any pollutiants have migrated off site.

Attached: CP Soil Sample results

DRY LAGOON 50638

MIXING TANKS

A FORM 1320-6 (REV. 3-76)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: August 4, 1981

SUBJECT: Carrol Products, R.I.

FROM: Daniel S. Granz DSG
Environmental Engineer

TO: Michele Travers
Enforcement

Below you will find additional data on samples #50639, #50638 and #50642. These soil samples were scanned by x-ray fluorescence and the metals found were then quantified by atomic absorption.

Sample	Location	Compound	Concentration
50638	Dry Lagoon	Lead	16,000 PPM
		Zinc	6,100 PPM
50639	Active Lagoon	Lead	110 PPM
		Zinc	200 PPM
50642	Disposal Area Behind "Tin Shed"	Lead	210 PPM
		Zinc	700 PPM

The dry lagoon contains a very high concentration of lead. There was no visible plant growth on the soil in the dry lagoon, even though no discharge has occurred to this area for many years. I suspect the lack of plant growth on the dry lagoon soil due to the toxic level of lead present.

EPA Form 1320-6 (Rev. 3-76)

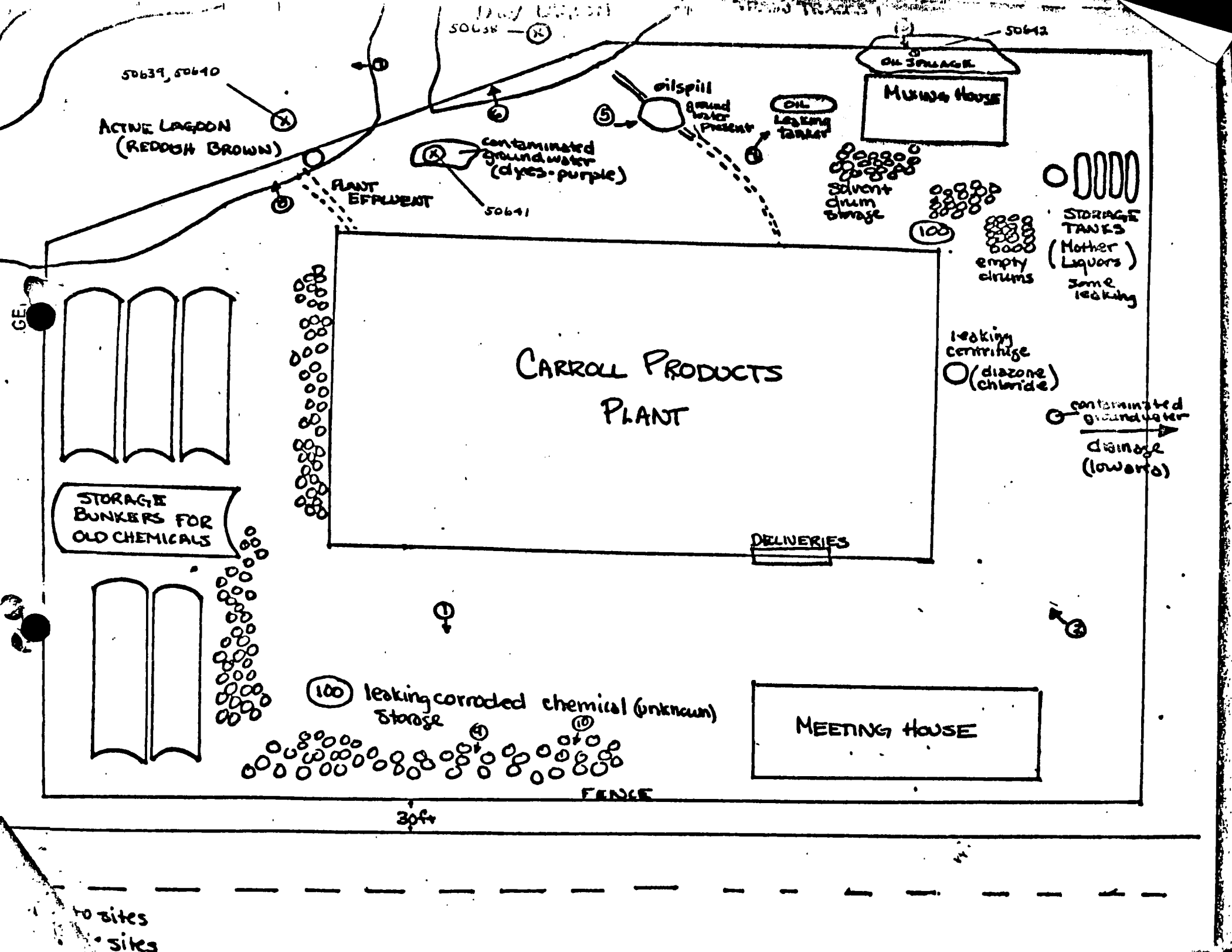

50642
OIL SPILLAGE
50639, 50640
ACTIVE LAGOON
(REDDISH BROWN)
oilspill
ground water present
OIL
leaking tanker
MIXING HOUSE
contaminated ground water (dyes - purple)
50641
PLANT EFFLUENT
solvent drum storage
STORAGE TANKS
(Mother Liquors)
some leaking
empty drums
100
CARROLL PRODUCTS PLANT
leaking centrifuge
(diazone chloride)
contaminated groundwater
drainage (lowers)
STORAGE BUNKERS FOR OLD CHEMICALS
DELIVERIES
100 leaking corroded chemical (unknown) storage
MEETING HOUSE
FENCE
30ft
to sites
sites

Table 1

Sample	Location	Compound	Concentration
50638	Dry lagoon (sediment)	Trichloroethylene	17 PPB
		C-8 Alkane	present
50639	Active lagoon (sediment)	Methylene Chloride	640 PPB
		chloroform	18PPB
		Benzene	4,500 PPB
		Tetrachloroethylene	4* PPB
		Toluene	21 PPB
		Chlorobenzene	19 PPB
		Xylenes	12 PPB
		C-6, C-7, C-8, Alkanes	Present
50640	Active lagoon (liquid)	Methylene Chloride	130 J PPB
		Carbon Tetrachloride	6 J PPB
		Benzene	14 J PPB
		Tetrachloroethylene	1 J* PPB
		Toluene	69 J PPB
		Chlorobenzene	3 J* PPB
		iron	Present
		Copper	Present
		Zinc	Present
50641	Open Pit (liquid)	Benzene	5J* PPB
		Toluene	9J* PPB
		Trichlorotrifluoroethane	Present
		Iron	Present
		Zinc	Present
		Bromine	Present
50642	Disposal Area behind "Tin Shed" (sediment)	Chloroform	9,700PPB
		Benzene	970* PPB
		Toluene	3,000 PPB
		Chlorobenzene	1200* PPB
		Xylene	9,700 PPB
		C-6 Alkanes	Present

J - Approximation because of Matrix interferences

* - Concentration is lower than the approximate detection level because of the compoun response factor and/or a decrease of interferences in the sample's chromatogram.

Detection Levels for samples

50638	15 PPB
50639	15 PPB
50640	5 PPB
50641	10 PPB
50642	2000 PPB